

# Extra Credit: Quadratic Concept Map

Cut out the squares below and organize them in a way that makes sense. Connect the boxes with arrows that have words on them to explain how the two boxes are related. (See the example at the bottom). You may add in extra words if you need them.

Transformation	Quadratic Formula	Quadratic Function	$y = ax^2 + bx + c$	X-intercepts
Parabola	Axis of Symmetry	Standard Form	Vertex Form	Maximum
Minimum	Solutions/Roots/Zeros	Y-intercept	Factoring	Zero Product Property
Graphing	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	$x = -b/(2a)$	(h,k)	Skinier/Wider
Vertex	a	c	h	k
Reflected/ Concave down	Shift left and right	Make y=0	Shift up and down	$y = a(x - h)^2 + k$

